



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P43-8TW-A-POE 4000K ALL ON_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-P43-8TW-A-PoE 4000k ALL ON
 [_SEARCH_SOURCE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7860
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	69.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7702	7696	7982
55	6394	6889	7141
65	4983	5732	4726
75	3705	3692	2743
85	2380	1816	1466

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	3425.878	3425.878	3425.878	3425.878	3425.878
2.5	3423.760	3417.405	3414.472	3421.967	3426.041
5.0	3414.309	3406.163	3399.971	3401.926	3405.837
7.5	3393.617	3381.722	3373.250	3370.969	3366.569
10.0	3361.192	3347.506	3331.538	3325.510	3320.459
12.5	3317.200	3302.862	3281.843	3268.482	3257.891
15.0	3259.521	3244.205	3218.298	3199.561	3186.363
17.5	3190.599	3171.373	3142.696	3121.515	3106.362
20.0	3108.969	3088.439	3055.852	3032.878	3015.444
22.5	3016.095	2993.122	2959.557	2937.072	2920.615
25.0	2915.238	2888.354	2851.694	2832.141	2817.477
27.5	2807.538	2777.232	2740.409	2726.234	2715.480
30.0	2695.276	2663.666	2628.309	2617.719	2610.875
32.5	2575.844	2543.909	2511.648	2508.226	2503.664
35.0	2446.962	2417.308	2389.935	2396.615	2395.964
37.5	2309.445	2283.375	2262.846	2276.695	2281.420
40.0	2167.040	2144.066	2131.031	2154.331	2164.758
42.5	2016.487	1999.379	1996.120	2030.500	2049.563
45.0	1861.210	1849.967	1859.744	1906.017	1928.828
47.5	1706.421	1705.281	1724.018	1782.675	1808.582
50.0	1551.796	1562.061	1594.974	1661.940	1678.722
52.5	1400.755	1421.448	1470.980	1535.665	1544.627
55.0	1253.298	1284.745	1350.245	1397.985	1399.777
57.5	1111.056	1150.649	1229.673	1247.921	1208.002
60.0	973.050	1020.464	1103.072	1062.175	1026.167
62.5	841.235	895.818	973.376	899.077	848.404
65.0	719.685	780.460	827.874	739.075	682.536
67.5	607.097	671.131	683.514	586.567	538.501
70.0	505.262	569.948	554.632	457.359	417.440
72.5	411.575	471.535	433.408	348.356	318.864
75.0	327.663	373.611	326.522	262.163	242.611
77.5	251.083	280.412	235.767	194.219	182.488
80.0	183.302	198.618	162.935	139.310	132.792
82.5	123.342	125.786	103.138	90.918	85.541
85.0	70.877	65.500	54.095	47.577	43.667
87.5	24.929	20.693	18.900	19.226	19.063
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.163	0.000	0.163
152.5	0.000	0.000	0.163	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.326	0.163	0.000	0.652	0.163
160.0	0.163	0.000	0.489	0.326	0.163
162.5	0.652	0.163	0.163	0.163	0.489
165.0	0.163	0.163	0.489	0.326	0.652
167.5	0.652	0.163	0.326	0.326	0.163
170.0	0.163	0.163	0.489	0.326	0.326
172.5	0.000	0.163	0.652	0.815	0.000
175.0	0.489	0.000	0.326	0.489	0.652
177.5	0.489	0.326	0.489	0.489	0.163
180.0	0.489	0.489	0.489	0.489	0.489

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Zone	Lumens	%Lamp	%Fixt
0-20	1229.48	N.A.	15.60
0-30	2545.91	N.A.	32.40
0-40	4048.6	N.A.	51.50
0-60	6690.36	N.A.	85.10
0-80	7788.18	N.A.	99.10
0-90	7860.17	N.A.	100.00
10-90	7537.37	N.A.	95.90
20-40	2819.12	N.A.	35.90
20-50	4268.09	N.A.	54.30
40-70	3400.79	N.A.	43.30
60-80	1097.82	N.A.	14.00
70-80	338.79	N.A.	4.30
80-90	71.99	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.17	N.A.	0.00
110-180	0.17	N.A.	0.00
0-180	7860.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	322.80
10-20	906.68
20-30	1316.43
30-40	1502.69
40-50	1448.97
50-60	1192.79
60-70	759.03
70-80	338.79
80-90	71.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.05
160-170	0.08
170-180	0.04

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	137	137	137	137	134	134	134	134	128	128	128	122	122	122	117	117	117	115
1	126	122	117	113	123	119	115	111	114	111	108	110	107	105	106	103	101	99
2	116	107	100	94	113	105	99	93	101	96	91	97	93	89	94	90	87	84
3	106	95	86	80	104	93	85	79	90	83	77	87	81	76	84	79	75	72
4	98	85	76	68	95	83	75	68	81	73	67	78	71	66	76	70	65	63
5	90	76	67	59	88	75	66	59	73	65	58	71	63	58	68	62	57	55
6	84	69	59	52	82	68	59	52	66	58	52	64	57	51	62	56	51	48
7	78	63	53	47	76	62	53	46	60	52	46	59	51	46	57	50	45	43
8	73	58	48	42	71	57	48	42	55	47	41	54	47	41	53	46	41	39
9	68	53	44	38	66	52	44	38	51	43	38	50	43	37	49	42	37	35
10	64	49	40	34	62	49	40	34	47	40	34	46	39	34	45	39	34	32

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	17.7	19.3	18.1	19.6	19.9	18.3	19.8	18.6	20.1	20.4
	3H	19.1	20.5	19.4	20.8	21.1	19.1	20.5	19.5	20.8	21.2
	4H	19.5	20.8	19.9	21.2	21.5	19.3	20.6	19.7	21.0	21.4
	6H	19.8	21.0	20.2	21.4	21.8	19.5	20.7	19.9	21.0	21.4
	8H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4
	12H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4

UGR Viewed Endwise

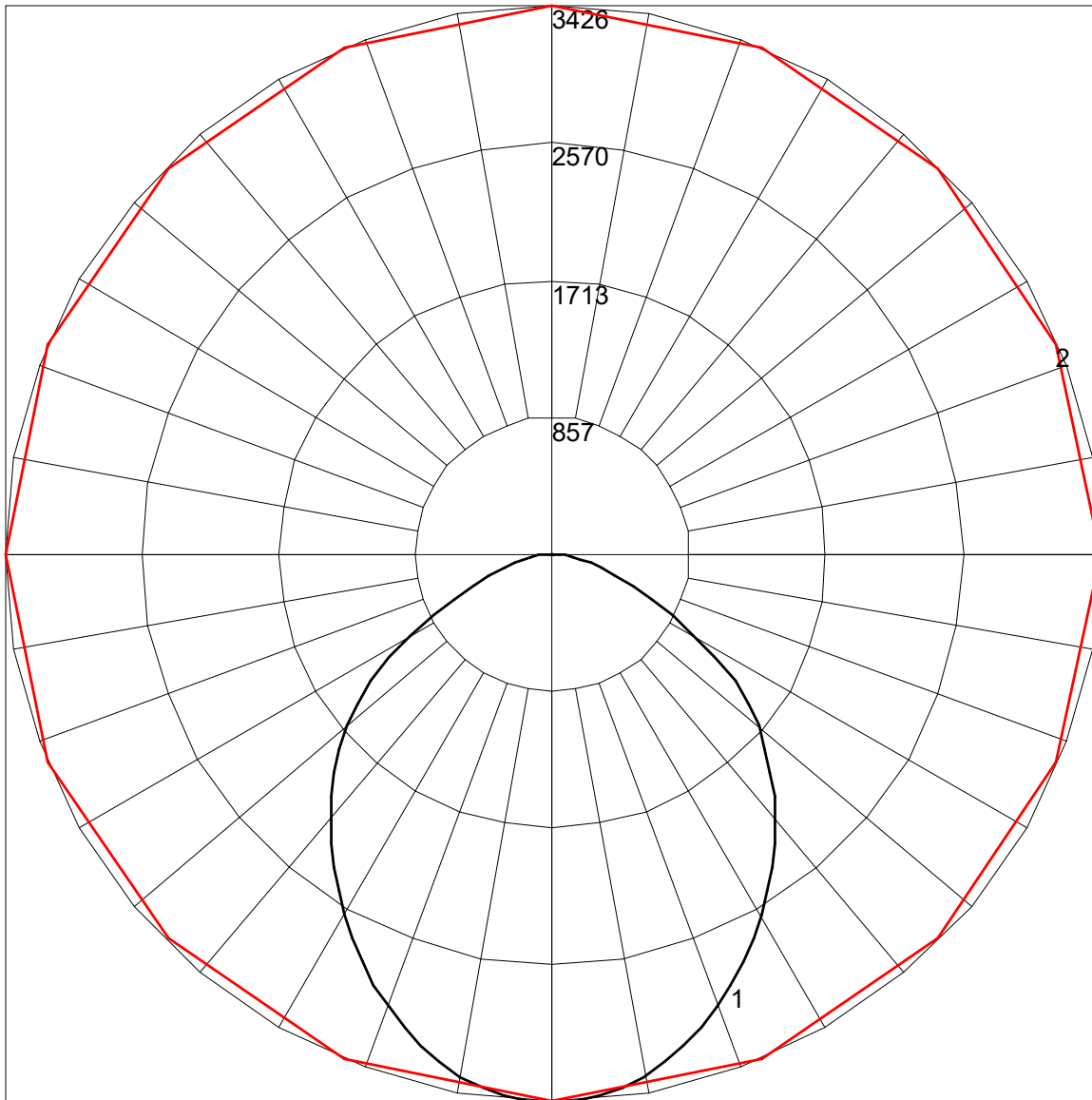
4H	2H	18.3	19.6	18.7	20.0	20.4	18.8	20.1	19.2	20.4	20.8
	3H	19.9	20.9	20.3	21.3	21.8	19.8	20.9	20.2	21.3	21.7
	4H	20.4	21.4	20.9	21.8	22.3	20.1	21.1	20.5	21.5	21.9
	6H	20.8	21.7	21.3	22.1	22.6	20.3	21.1	20.7	21.6	22.0
	8H	20.9	21.7	21.4	22.2	22.6	20.3	21.1	20.8	21.6	22.0
	12H	21.0	21.7	21.5	22.2	22.6	20.3	21.1	20.8	21.5	22.0

8H	4H	20.6	21.4	21.0	21.8	22.3	20.3	21.1	20.7	21.5	22.0
	6H	21.0	21.7	21.5	22.2	22.7	20.5	21.2	21.0	21.7	22.1
	8H	21.2	21.8	21.7	22.3	22.8	20.6	21.2	21.1	21.7	22.2
	12H	21.3	21.8	21.8	22.3	22.9	20.6	21.2	21.2	21.7	22.2

12H	4H	20.6	21.3	21.1	21.8	22.2	20.3	21.0	20.8	21.5	21.9
	6H	21.1	21.6	21.6	22.1	22.7	20.6	21.1	21.1	21.6	22.1
	8H	21.2	21.8	21.7	22.2	22.8	20.7	21.2	21.2	21.7	22.2

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 3426.041 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)